

Title (en)

FTTH RF OVER GLASS (RFOG) ARCHITECTURE AND CPE

Title (de)

FTTH-RF-OVER-GLAS- BZW. RFOG-ARCHITEKTUR UND CPE

Title (fr)

ARCHITECTURE DE FTTH RF SUR VERRE (RFOG) ET ÉQUIPEMENT DE LOCAL CLIENT (CPE)

Publication

EP 2335367 B1 20191204 (EN)

Application

EP 09749217 A 20091013

Priority

- US 2009005595 W 20091013
- US 19580708 P 20081010

Abstract (en)

[origin: WO2010042232A1] Methods and apparatus are described for fiber-to-the-home (FTTH) RF over Glass (RfOG) Architecture and customer-premise-equipment (CPE). A method includes up-converting a baseband upstream data signal to a frequency band above a frequency band of a baseband downstream data signal; combining the up-converted upstream data signal with an upstream cable return; transmitting the up-converted upstream data signal and the upstream cable return using a single upstream laser; separating the frequency up-converted data signal from the upstream cable return using an RF diplexer; and down-converting the frequency up-converted upstream data signal back to baseband. An apparatus comprises: a frequency up-converter that up-converts a baseband upstream data signal to a frequency band above a frequency band of a baseband downstream data signal; a frequency combiner coupled to the frequency up-converter that combines the up-converted upstream data signal with an upstream cable return; a single upstream laser coupled to the frequency combiner that transmits the up-converted upstream data signal and the upstream cable return; an RF diplexer coupled to the single upstream laser that separates the frequency up-converted data signal from the upstream cable return; and a frequency down-converter that down-converts the frequency up-converted upstream data signal back to baseband.

IPC 8 full level

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Citation (examination)

- WO 2006135139 A1 20061221 - KOREA ELECTRONICS TELECOMM [KR], et al
- US 2007274730 A1 20071129 - KOO HAN-SEUNG [KR], et al
- US 7209442 B1 20070424 - CHAPMAN JOHN T [US]

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